

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	5397904
<b>Application Number:</b>	10674676
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4999
<b>Title of Invention:</b>	Systems and methods for logging and recovering updates to data structures
<b>First Named Inventor/Applicant Name:</b>	Marc A. Najork
<b>Customer Number:</b>	41505
<b>Filer:</b>	Joseph Frederick Oriti/Joanne Gallagher
<b>Filer Authorized By:</b>	Joseph Frederick Oriti.
<b>Attorney Docket Number:</b>	MSFT-2557/304882.01
<b>Receipt Date:</b>	26-MAY-2009
<b>Filing Date:</b>	30-SEP-2003
<b>Time Stamp:</b>	17:26:55
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		REPLY.PDF	190256 <small>201d506704a2f66a73cc3380364fb5d117d.pdf</small>	yes	18

Multipart Description/PDF files in .zip description			
Document Description		Start	End
Amendment After Final		1	1
Specification		2	2
Amendment Copy Claims/Response to Suggested Claims		3	13
Applicant Arguments/Remarks Made in an Amendment		14	18

**Warnings:**

**Information:**

2	Miscellaneous Incoming Letter	transmittal.PDF	262983	no	2
			6122054a3d1966d3c7300c2280643679a7c67		

**Warnings:**

**Information:**

<b>Total Files Size (in bytes):</b>	453239
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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.